

5630

LH



OIPE

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/936,737A

TIME: 14:54:13

Input Set : A:\Saratin1.app

Output Set: N:\CRF3\04122002\I936737A.raw

ENTERED

```

3 <110> APPLICANT: Merck Patent GmbH
5 <120> TITLE OF INVENTION: Protein for blocking platelet adhesion
7 <130> FILE REFERENCE: Saratin Sequence
9 <140> CURRENT APPLICATION NUMBER: US/09/936,737A
C--> 10 <141> CURRENT FILING DATE: 2002-03-04
12 <160> NUMBER OF SEQ ID NOS: 12
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 375
18 <212> TYPE: DNA
19 <213> ORGANISM: Hirudo medicinalis
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (64)..(372)
25 <400> SEQUENCE: 1
26 atgaagtatt tcttgatttc cttcctttgc ctgcgaagct tgctgatctc aactacttct 60
28 tca gaa gaa cgt gaa gat tgt tgg acg ttt tac gcg aac aga aaa tat 108
29   Glu Glu Arg Glu Asp Cys Trp Thr Phe Tyr Ala Asn Arg Lys Tyr
30     1             5             10             15
32 aca gac ttc gat aaa tct ttt aag aag tcc tct gat ctt gac gaa tgc 156
33 Thr Asp Phe Asp Lys Ser Phe Lys Lys Ser Ser Asp Leu Asp Glu Cys
34           20           25           30
36 aaa aaa aca tgt ttc aag acg gag tac tgc tac atc gtt ttt gaa gac 204
37 Lys Lys Thr Cys Phe Lys Thr Glu Tyr Cys Tyr Ile Val Phe Glu Asp
38           35           40           45
40 acg gtc aac aag gaa tgt tac tac aat gtc gtt gat ggt gaa gag tta 252
41 Thr Val Asn Lys Glu Cys Tyr Tyr Asn Val Val Asp Gly Glu Glu Leu
42           50           55           60
44 gac caa gaa aaa ttt gtt gtc gac gaa aac ttc acg gaa aat tat ttg 300
45 Asp Gln Glu Lys Phe Val Val Asp Glu Asn Phe Thr Glu Asn Tyr Leu
46           65           70           75
48 aca gac tgc gag ggt aaa gat gca ggt aat gcg gca ggt aca ggt gac 348
49 Thr Asp Cys Glu Gly Lys Asp Ala Gly Asn Ala Ala Gly Thr Gly Asp
50   80             85             90             95
52 gag tca gat gaa gtt gat gaa gat taa 375
53 Glu Ser Asp Glu Val Asp Glu Asp
54           100
57 <210> SEQ ID NO: 2
58 <211> LENGTH: 103
59 <212> TYPE: PRT
60 <213> ORGANISM: Hirudo medicinalis
62 <400> SEQUENCE: 2
63 Glu Glu Arg Glu Asp Cys Trp Thr Phe Tyr Ala Asn Arg Lys Tyr Thr

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,737A

DATE: 04/12/2002

TIME: 14:54:13

Input Set : A:\Saratin1.app

Output Set: N:\CRF3\04122002\I936737A.raw

```

64   1           5           10           15
66 Asp Phe Asp Lys Ser Phe Lys Lys Ser Ser Asp Leu Asp Glu Cys Lys
67           20           25           30
69 Lys Thr Cys Phe Lys Thr Glu Tyr Cys Tyr Ile Val Phe Glu Asp Thr
70           35           40           45
72 Val Asn Lys Glu Cys Tyr Tyr Asn Val Val Asp Gly Glu Glu Leu Asp
73           50           55           60
75 Gln Glu Lys Phe Val Val Asp Glu Asn Phe Thr Glu Asn Tyr Leu Thr
76 65           70           75           80
78 Asp Cys Glu Gly Lys Asp Ala Gly Asn Ala Ala Gly Thr Gly Asp Glu
79           85           90           95
81 Ser Asp Glu Val Asp Glu Asp
82           100

```

86 <210> SEQ ID NO: 3

87 <211> LENGTH: 23

88 <212> TYPE: DNA

89 <213> ORGANISM: Artificial Sequence

91 <220> FEATURE:

92 <223> OTHER INFORMATION: r = a or g; m = a or c; y = c or t; and n = a or g
93 or c or t

95 <220> FEATURE:

96 <223> OTHER INFORMATION: Description of Artificial Sequence:primer01

98 <400> SEQUENCE: 3

99 gargarmgng argaytggtg gac

23

102 <210> SEQ ID NO: 4

103 <211> LENGTH: 23

104 <212> TYPE: DNA

105 <213> ORGANISM: Artificial Sequence

107 <220> FEATURE:

108 <223> OTHER INFORMATION: r = a or g; m = a or c; y = c or t; and n = a or g
109 or c or t

111 <220> FEATURE:

112 <223> OTHER INFORMATION: Description of Artificial Sequence:primer02

114 <400> SEQUENCE: 4

115 gargarmgng argaytgctg gac

23

118 <210> SEQ ID NO: 5

119 <211> LENGTH: 24

120 <212> TYPE: DNA

121 <213> ORGANISM: Artificial Sequence

123 <220> FEATURE:

124 <223> OTHER INFORMATION: Description of Artificial Sequence:primer03

126 <400> SEQUENCE: 5

127 gcatcgatgg aagaacgtga agac

24

130 <210> SEQ ID NO: 6

131 <211> LENGTH: 23

132 <212> TYPE: DNA

133 <213> ORGANISM: Artificial Sequence

135 <220> FEATURE:

136 <223> OTHER INFORMATION: Description of Artificial Sequence:primer04

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,737A

DATE: 04/12/2002

TIME: 14:54:13

Input Set : A:\Saratin1.app

Output Set: N:\CRF3\04122002\I936737A.raw

```

138 <400> SEQUENCE: 6
139 tagcgctttt gacgtcgtcg tca
142 <210> SEQ ID NO: 7
143 <211> LENGTH: 26
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence:primer05
150 <400> SEQUENCE: 7
151 gaagaatgca aggatgagga ttattg
154 <210> SEQ ID NO: 8
155 <211> LENGTH: 25
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Description of Artificial Sequence:primer06
162 <400> SEQUENCE: 8
163 aagcttctag tcttcgtcaa ctctcg
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 94
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence:primer07
174 <400> SEQUENCE: 9
175 cggatccatg aaattcttag tcaacgttgc ccttggtttt atggtogtat acatttctta
176 catctatgcg gaagaacgtg aagattgttg gact
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence:primer08
187 <400> SEQUENCE: 10
188 ggtacctcac atatcttcat caac
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 30
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence:primer09
199 <400> SEQUENCE: 11
200 gcatgcggcc gcctaattct catcaacttc
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 27
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence:primer10

```

RAW SEQUENCE LISTING

DATE: 04/12/2002

PATENT APPLICATION: US/09/936,737A

TIME: 14:54:13

Input Set : A:\Saratin1.app

Output Set: N:\CRF3\04122002\I936737A.raw

211 <400> SEQUENCE: 12

212 gcatgaattc gaagaacgtg aagattg

27

TO: 04/12/2002 14:54:13